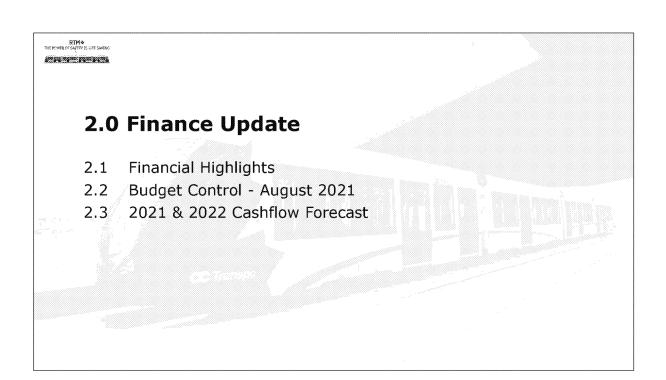
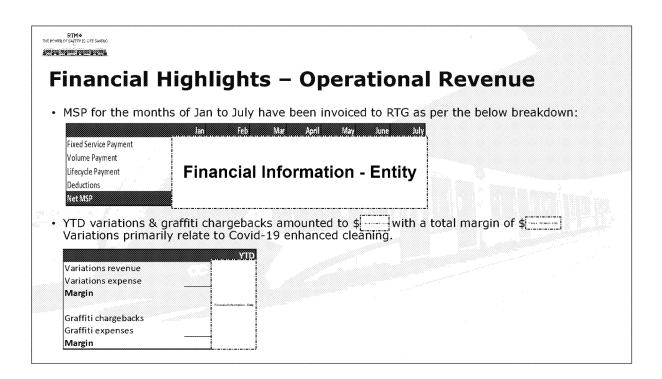
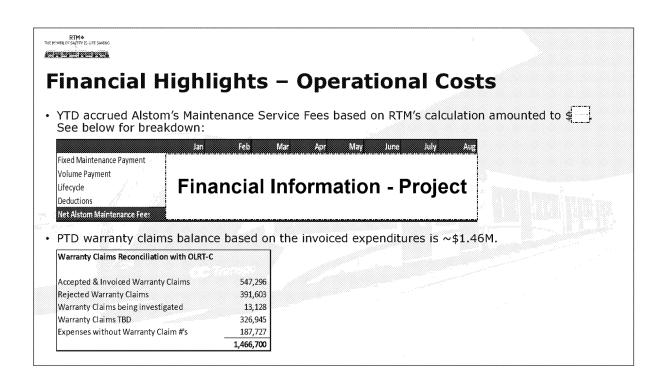
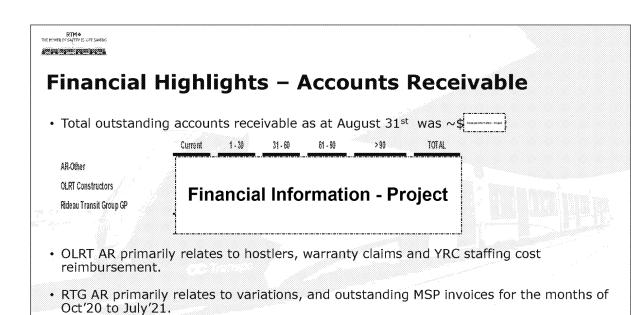


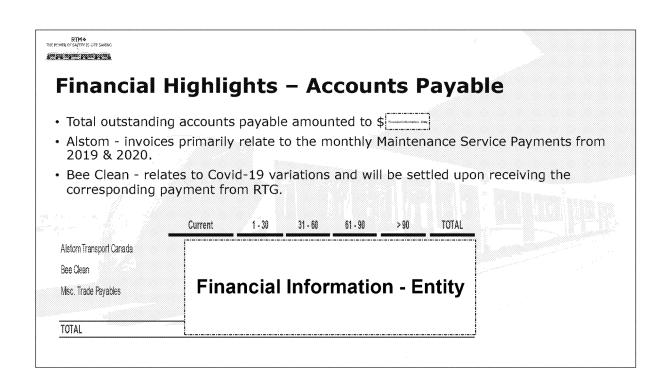
# 1.0 Introduction 1. Approval Minutes 2. System Recovery Update 3. System Recovery Plan 4. Organizational Changes

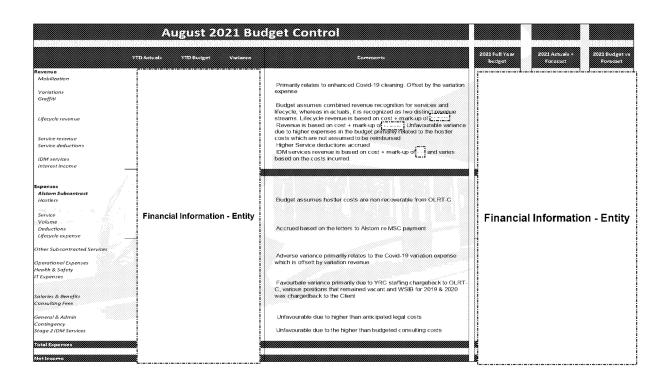


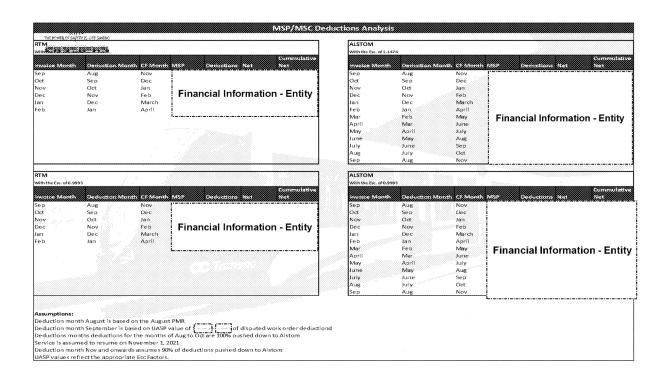


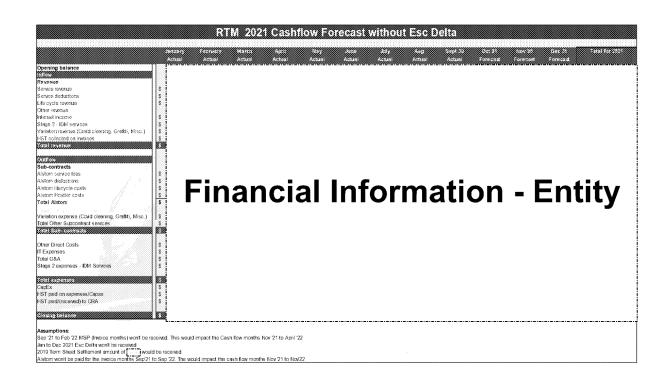


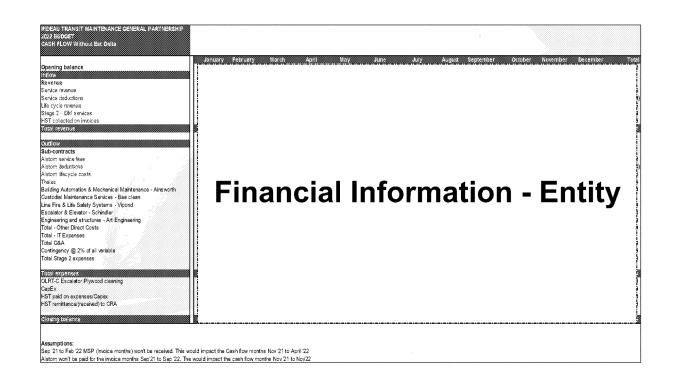


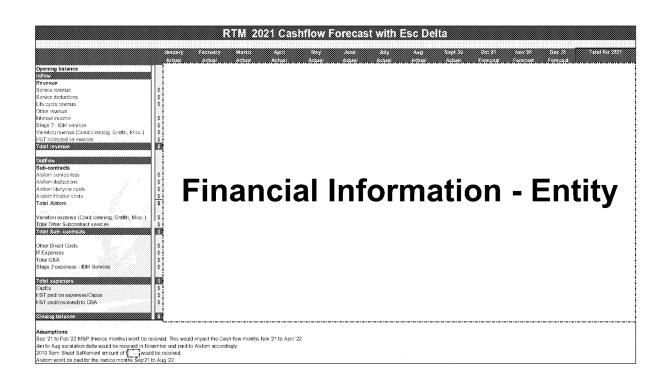


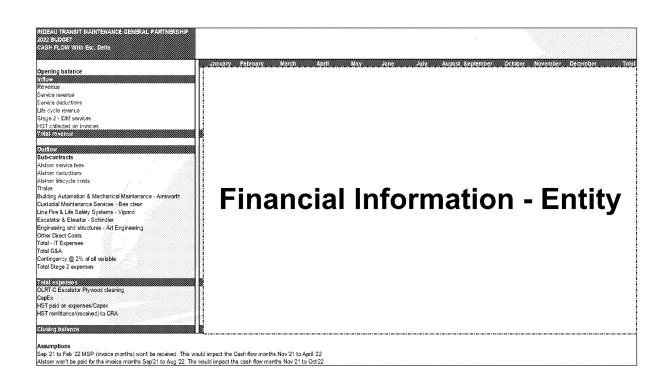












3.0 Human Resources Update

3.1 Recruitment
3.2 Union
3.3 Covid-19 Vaccination Policy
3.4 Other

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## **Human Resources - Update**

#### · Recruitment

- · Facility Maintenance Labourer one outstanding personnel to be hired
- Snow Removal/General Labourer 10 personnel
  - Recruitment started mid September for personnel to start November 15, 2021, for five months
- · New Student hired to backfill previous student re: continuation of work with SharePoint development

#### Union

- · Next union meeting TBA mid to end of October
  - · Awaiting their appointment & announcement of their Shop Steward
  - · Preparation of cost analysis re: higher costs expected re: potential union negotiated items
    - · Areas are mainly: shift premium, sick time allotment, salaries and pension plan

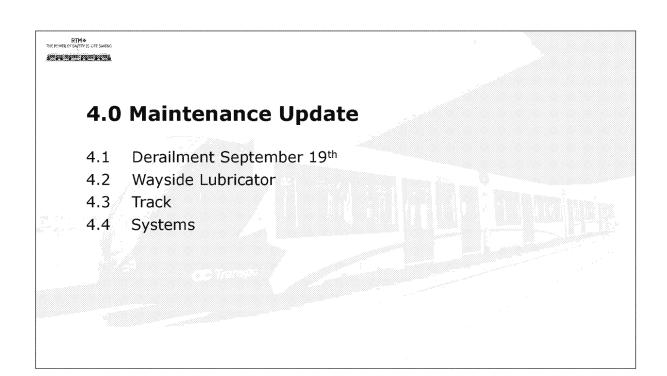
#### Covid – Vaccination Policy

Solicitor Client Privileged

 Some push back from few employees – time will tell but may have three personnel resign due to this requirement

#### Other

- Continuation of training on payroll/human resources to assist temporarily while HR Generalist is on sick leave.
- Working with General Manager re: rebalancing the organization to ensure appropriate support in the right places



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# September 19th Derailment

- Train 1121-1138 derailed Sept 19<sup>th</sup>
   Train travelled from Tremblay Station to Switch 315 in a derailed state.
- Extensive damage to track and infrastructure. Major work to repair, approximately 600 meters of damage.
- Work plan developed and formalizing (As of Sept 23)
- Over and above damage due to derailment. Focus on backlog items for maintenance or repair during shutdown period



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# **Wayside Lubricator**



- Wayside Lubricator installed Track 1 east of curve leading into Hurdman Station. Solar panel powered
- Friction Modifier system dispenses lubricant on top of rail and then picked up by wheels.
   Frequency controlled by axle counter
- Completion expected on September 23

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#### Track

- Wheel to Rail Interface Study has started with the National Research Council (NRC). Q&A, Requested documentation sent to NRC. Vehicle / Rail measurement and Testing completed on September 8, 2021.
- Welding of joints for removal of TSR's started end of August. 8 of 12 welds completed, delays caused by rain.
- Rail Neutral Temperature Working with City on approval to increase RNT to 25C. Agreement in principle has been reached. Risk Assessment to be finalized with City. Destressing work presumed Spring 2022.



## **Systems**

- Final Assessment Report by EllisDon expert of Network Management System received August 23, 2021. Report under review.
- SCADA
  - Software update ready Pending Build 8 installation
- CBTC
  - Thales CBTC Build 8 install completed September 18-19, 2021. No issues during install.
- · PIDS
  - Software update ready Changes agreed with the City. Install to be completed after Thales Version 8.0 install. Can not be installed until train service resumes as service is needed for verification.
- CCTV Indigo Vision Software required. Needs to go through Change Management Board process for approval and determine date.

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# **5.0 Performance and Analytics**

- 5.1 Maintenance Performance Workflows
- 5.2 Cybersecurity
- 5.3 Paymech
- 5.4 Variations
- 5.5 YCC Operations
- 5.6 HSQE Update
- 5.7 Performance Measures

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#### **Maintenance Performance Workflows**

- In order to improve our delivery of the complete Maintenance scope, RTM will be performing a detailed review the Maintenance requirements to identify any gaps and to refine our processes. For a given requirement, we will identify:
- "What" (Weekly Station Cleaning, Stray Current Monitoring, MSF Security, etc.)
- "Who" (RTM FM, Alstom, BeeClean, etc.)
- · "When" (weekly, monthly, etc.)
- · "How" (Plans and work instructions, etc.)
- · Evidence/Records (work order, report, etc.)
- · Compliance/Verification (Process and technical audits)
- Ultimately the top-level planning documents (M&R Plan, Annual PM Plan, Asset Management Plan) will be updated to reflect these processes in more detail.
- The first element to be reviewed will be Station custodial maintenance.

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## **Network Assessment and Cybersecurity**

- RTM has received the draft EllisDon communications network and server assessment and is in the process of reviewing the recommendations.
- RTM and EllisDon are reviewing the draft cybersecurity technical specification provided by the City, both from the technical and PA requirement vs Variation perspectives.
- Discussions with the City on the specification will commence in September. Per the services agreement with RTM, EllisDon will lead the development of the cybersecurity program documentation and implementation of technical solutions based on the agreed specifications.

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# **Paymech Processes – City**

- The remaining issue which can cause discrepancies between Deductions applied by RTM and those applied by the City is the City's position that the \$10k daily cap only applies to Work Orders, vs RTM's position that the cap applies to all disputed items on the Daily Operating Reports.
- A detailed daily review of newly opened work orders is in place to identify misallocation
  of KPMs, and re-assign where required, before potentially large Deductions can accrue.
  Any re-assigned KPM work orders are followed up by the Help Desk on an ongoing
  basis.
- 2019 Term Sheet Deductions RTM has reviewed and recalculated these work order from the perspective of the Term Sheet KPM interpretations.
- 2020 and 2021 Q1/Q2 Disputed work orders RTM has reviewed all work orders from the perspective of the KPM interpretations in both the Term Sheet and the Paymech Review proposal.

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## **Paymech Processes – Alstom**

- RTM and Alstom meet weekly to:
  - Review the ongoing Dispute Ledger with the City and prepare substantiations of our common positions.
  - Allocate Deductions between RTM-Alstom for Deductions accepted during the previous invoiced performance month.
- This process continues to be frustrated by long delays with Alstom providing feedback and evidence to support dispute positions.

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#### **Variations**

- RTM has completed the review and pricing of the backlog of Variation Confirmations, save one (GIDS maintenance) for which Alstom has indicated they will provide pricing for by end of September.
- RTM/RTG/City are discussing the approach to backdating payments for Variations with MSP/LC impacts extending back as far as RSAD.
- The wheel lathe relocation Estimate has been provided to the City, with approval expected by end of September.

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## **YCC - Operations**

- The new Yard Operations Manual became effective July 12<sup>th</sup> and has already resulted in improved communication between RTM and Alstom on yard management challenges.
- Maintenance planning and coordination is undergoing review and optimization in order to minimize conflicts between train moved, infrastructure maintenance, and revenue service launch/reduction.
- The first consolidated Help Desk KPM guidebook has been issued. It aligns with RTM's '2019 Term Sheet' KPM Interpretations and will be updated as interpretations are further clarified with the City and as efficiencies in KPM work order allocation/dispatch are identified.

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#### YCC - UTO Yard

- OLRT-C has provided an update Thales UTO schedule indicating completion in late December 2021.
- RTM has met with OLRT-C and Thales to review UTO yard functionality, has sent a letter to OLRT-C requesting responses to outstanding yard infrastructure questions. RTM is also waiting for a response to several questions regarding CBTC functionality.
- RTM has adopted a risk-based approach to preparing for UTO. Operational risks will be identified and assessed for suitable mitigations. A Risk Register has been developed and the Yard Operations Working Group consisting of RTM, Alstom, and other stakeholders as required, meets bi-weekly.
- One example of a current known risk is LRVs that stop on short radius curves may derail when re-starting, as observed in two-yard incidents. The root cause of this issue must be resolved before UTO is enabled.



## **HSQE - Health & Safety**

#### · Incidents (August 2021)

- · Rail-Related
  - LRV 1119 derailed east of Tunney's Pasture Station on Track 1.
- Medical Aid
  - · A worker fell and injured their knee while walking down the overpass stairs at the MSF.
  - · A worker sustained a burn to their torso while using a grinder.
- · Environmental Incident
  - · A spill of hydraulic oil occurred on the guideway while removing the damaged wheel from LRV 1119.
- · Property Damage
  - · A worker kicked an elevator door, resulting in the glass breaking.
- · Occupational Exposure
  - A worker became physically ill following exposure to a strong paint smell in MSF1.
- · Security Incident
  - · Workers were verbally assaulted by an individual at the Williams Street entrance.
  - · An individual broke into the UOttawa snow removal room and stole a battery backpack.
  - · A worker was physically assaulted at Rideau Station.

#### · RTM's Safety Interaction Program.

• 36% of targeted interactions took place. This is another decrease from previous months.

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## **HSQE - Quality Management**

- RTM and RTG are aligned on QMS documentation production timelines. Target for completion delayed to October 2021.
- M&R Quality Management Plan has been updated in parallel with Asset Management Plan. Draft was submitted to the City on Dec 31, 2020, final version to be issued along with RTG Quality Manual when document is completed in October 2021.
- ISO compliance (not certification) Audit delayed to Q4 2021.

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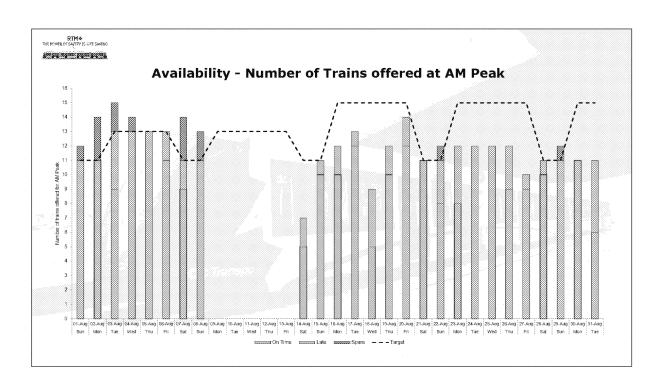
## **HSQE - Environmental Management**

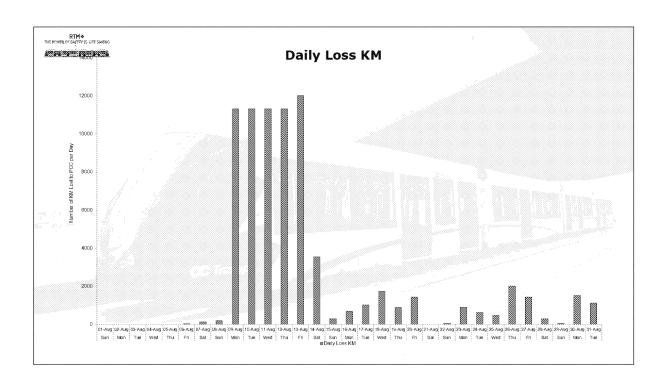
- Two (1) Environmental incidents occurred in August 2021.
  - A spill of hydraulic oil occurred on the guideway while removing the damaged wheel from LRV 1119.
- 2<sup>nd</sup> phase of ECA Monitoring program (MSF, Hurdman, Bayview, Lees) to begin in August 2021.
- · Noise and Vibration monitoring will commence in Q4.
  - RTM is waiting on the City to enter into negotiations with the Sensitive Receivers.
- 3<sup>rd</sup> party Environmental audit complete.
- Further discussion with RTG required as to scope split between RTG E&S Director role (not currently filled) and RTM E&S Manager roles. RTM has prepared a scope document for discussion.

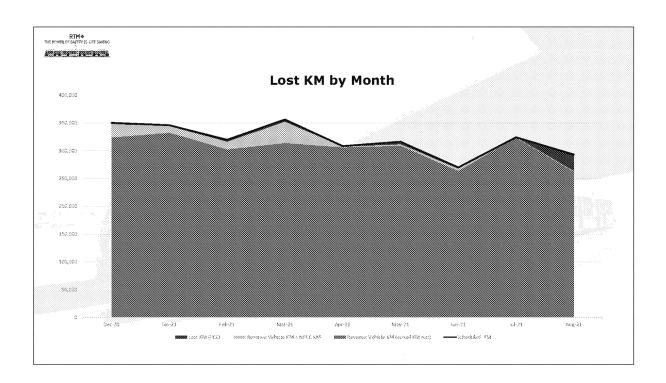
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### **HSQE – Document Control**

- RTM and City continue to work on aligning the sharing of updated operations-related documents via the City's document control platform.
- RTM has completed initial development and testing of a SharePoint site. The objective is to replace Laserfiche and InTouch systems by the end of 2021. The site is in the final stages of development. Soft launch planned for October 2021.
- Alstom and RTM have notified OLRTC of several remaining gaps in the handover documentation. RTM continues to expend considerable effort searching 4P for documents needed to perform the maintenance services.







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